Scheme 1

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BnO

A2 R = H

A3 R = Bn

OH

CN

BnO

A5

BnO

A6 Z = 
$$\beta$$
-CN

A7 Z =  $\alpha$ -CO<sub>2</sub>H

OH

FOUR

OH

So, E15-1,1 R = Me

50, E15-1,2 R = Et

51, E15-1,2F<sub>1</sub> R = CH<sub>2</sub>CH<sub>2</sub>F

52, E15-1,3 R = nPr

53, E15-1,3 R = iPr

54, E15-1,4 R = nBu

## FIGURE 2

## FIGURE 3

## FIGURE 4